

DEC 06 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO. 10/632,334	FILING DATE 08/01/2003	FIRST NAMED INVENTOR Klaus G. Carl	ATTORNEY DOCKET NO. 2003 P 06991 US
Response To			EXAMINER Gary, Erika A.
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AMENDMENTS TO THE CLAIMS

1-26. (Cancelled)

27. (New) An apparatus for predicting the location of a mobile subscriber unit in a wireless communications network of base transceiver stations, comprising:

means for generating predicted levels of reception of signals of base transceiver stations, for a plurality of locations in the network;

a plurality of mobile subscriber units, each mobile subscriber unit comprising means for measuring reception levels of signals of base transceiver stations detected by the mobile subscriber unit, where at least one mobile subscriber unit further comprises a position location receiver, and means, responsive to the position location receiver and the means for measuring reception levels, for providing combined position location and reception levels to a base transceiver station; and

means, responsive to the combined position location and reception levels received from a mobile subscriber unit, for updating the predicted levels of reception.

28. (New) An apparatus as set forth in claim 27, where the means for generating predicted levels of reception comprises a network planning tool.

29. (New) An apparatus as set forth in claim 27, where the means for generating predicted levels of reception comprises a mobile subscriber unit comprising a position location receiver.

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30. (New) An apparatus as set forth in claim 27, further comprising a database comprising the predicted levels of reception at a plurality of locations.

31. (New) An apparatus as set forth in claim 27, where the mobile subscriber units comprise cellular telephones.

32. (New) An apparatus as set forth in claim 27, where the position location receiver comprises a GPS receiver.

33. (New) An apparatus as set forth in claim 27, further comprising means, responsive to reception levels not associated with a position location, received from a mobile subscriber unit, for identifying a predicted location corresponding to the received reception levels.

34. (New) An apparatus as set forth in claim 33, where the base transceiver station comprises means, responsive to a predicted location, for providing location-specific information to a mobile subscriber unit.

35. (New) An apparatus as set forth in claim 34, where the location-specific information comprises commercial or safety information.

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36. (New) A method of predicting the location of a mobile-subscriber unit in a wireless communications network of base transceiver stations, comprising:

generating predicted levels of reception of signals of base transceiver stations, for a plurality of locations in the network;

measuring reception levels of signals of base transceiver stations detected at a known location; and

in response to measuring reception levels at a known location, updating the predicted levels of reception.

37. (New) A method as set forth in claim 36, further comprising receiving reception levels not associated with a position location; and identifying a predicted location corresponding to the received reception levels.

38. (New) A method as set forth in claim 37, where, in response to a predicted location, providing location-specific information to a mobile subscriber unit.

39. (New) A method as set forth in claim 38, where providing location-specific information to a mobile subscriber unit comprises providing commercial or safety information.